STIC Search Report
EIC 3700

STIC Database Tracking Number: 207201

TO: Anitza M SanMiguel
Location: RND 6d28
Art Unit: 3733
Wednesday, November 22, 2006

Case Serial Number: 10/812216

From: Kristine Sasala
Location: EIC 3700
Randolph 8B31
Phone: (571)272-3337

kristine.sasala@uspto.gov

Search Notes

Attached is the completed search. I did an extensive search on the requested topic in a number of bibliographic and full-text databases as well as on the Internet. I also searched the inventors in both patent and non-patent literature and have included those results. The things I thought were significant are marked with colored flags. Please be sure to look over all the results as there may be other items of interest. I have attached the search strategies used for the searches performed.

I hope you find this search helpful. If you have a moment, please fill out the attached STIC Feedback Form. And, if there is anything I can do to refine or revise this search, please let me know.

Sincerely,
Kris Sasala (ASRC)

RUSH

Access DB# 207201

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Antonio Van Miguel Examiner #: 82768 Date: 11/13/06
Art Unit: 3733 Phone Number 30 2-3279 Serial Number: 10/812,216
Mail Box and Bldg/Room Location: 10D28 Results Format Preferred (circle): (PAPER) DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Method and apparatus for arthroscopic bone preparation

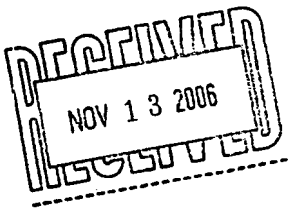
Inventors (please provide full names): Rute Arum, Dan Auger and Adam Hayden

Earliest Priority Filing Date: 3/29/2004

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Guide system for resecting bone.
- pins (length sufficient to extend completely through the bone)
- wire saw: forms a loop
- saw driver: having shaft; adapted to be driven by rotary drill; body, includes tube adapted to cut.
- saw frame

The invention must have a wire saw.



Rush!

Edward McC SPE 3733

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STAFF USE ONLY	Type of Search		Vendors and cost where applicable
Searcher:	NA Sequence (#)		STN
Searcher Phone #:	AA Sequence (#)		Dialog
Searcher Location:	Structure (#)		Questel/Orbit
Date Searcher Picked Up:	Bibliographic		Dr.Link
Date Completed:	Litigation		Lexis/Nexis
Searcher Prep & Review Time:	Fulltext		Sequence Systems
Clerical Prep Time:	Patent Family		WWW/Internet
Online Time:	Other		Other (specify)

PTO-1590 (8-01)

Set	Items	Description
S1	96418	S (ARTHROSCOP? OR PATELLA? OR KNEE? ? OR BONE? ? OR CONDYL? OR ORTHOPED? OR ORTHOPAED? OR OSSEOUS? OR OSTEAL OR OSTEOID OR OSSEO? OR OSTEOLOG?)
S2	65164	S SAW???
S3	1115133	S CUT? ? OR CUTT??? OR KERF? OR SLIC???
S4	1151100	S S2:S3
S5	655124	S WIRE
S6	27649	S (GIGLI OR OB OR OBSTETRIC??)
S7	3150503	S (METAL??? OR STEEL OR TUNGSTEN OR CARBIDE OR ALLOY)
S8	941247	S (STRING? ? OR CORD??? OR CABLE? ? OR THREAD? ? OR FILAMENT?)
S9	30677	S S7(3N)S8
S10	3279	S (S5 OR S6)(2N)S2
S11	2918906	S (HOLE OR HOLES OR TUNNEL? OR APERTURE? OR OPENING? ?)
S12	3657341	S PASS??? OR INSERT? OR DRILL? OR BORE? ? OR INCIS? OR PERFORAT? OR PIERC? OR PENETRAT?
S13	4396269	S THROUGH
S14	767897	S S12()S13
S15	48886	S S4(S)(S5 OR S6 OR S9)
S16	9741	S S15 (S)(S11 OR S14)
S17	104	S S16(S)S1
S18	104	IDPAT (sorted in duplicate/non-duplicate order)

18/5/1 (Item 1 from file: 347) **Links**
JAPIO

08497807 **Image available**
TUNNEL NOTCHER, GUIDE WIRE DELIVERY DEVICE, AND METHOD TO PREPARE BONE TUNNEL

Pub. No.: 2005-246067 [JP 2005246067 A]
Published: September 15, 2005 (20050915)
Inventor: WENSTROM RICHARD F JR
BREECH ROBERT K II
Applicant: DEPUY MITEK INC
Application No.: 2005-061260 [JP 200561260]
Filed: March 04, 2005 (20050304)
Priority: 04 708467 [US 2004708467], US (United States of America), March 05, 2004 (20040305)
International Class: A61B-017/56

ABSTRACT

PROBLEM TO BE SOLVED: To provide a method and a device for creating a notch to accurately fix a ligament into a **bone tunnel** and positioning a guide **wire** within a **bone tunnel**.

SOLUTION: The device includes an elongate member 12 having the proximal end and the distal end 12b with an inner lumen 12c extending therebetween that is adapted to receive a guide **wire**. The device 10 also includes a **cutting** element 18 disposed on a distal portion of the elongate member 12 that is adapted to remove **bone** within an **opening** of a **bone tunnel**. In use, the device 10 can be at least partially positioned within a **bone tunnel** containing a **bone** plug, and it can be manipulated to form a notch within or adjacent to an **opening** of the **bone tunnel** using the **cutting** element 18.

18/5/2 (Item 2 from file: 350) **Links**
Derwent WPIX

0015223852 *Drawing available*
WPI Acc no: 2005-573915/200559
XRPX Acc No: N2005-470935
Tunnel notcher and guide wire delivery device for use during arthroscopic procedure, has elongate structure with inner lumen for receiving guide wire to facilitate insertion of cutting element into bone tunnel, for removing bone
Patent Assignee: BREECH R K (BREE-I); DEPUY MITEK INC (DEPU-N); WENSTROM R F (WENS-I)
Inventor: BREECH R K; BREECH R K I; WENSTROM R F

Patent Family (5 patents, 40 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 1570793	A2	20050907	EP 2005251329	A	20050304	200559	B
JP 2005246067	A	20050915	JP 200561260	A	20050304	200560	E
US 20050203523	A1	20050915	US 2004708467	A	20040305	200561	E
CA 2499437	A1	20050905	CA 2499437	A	20050304	200565	E
AU 2005200673	A1	20050922	AU 2005200673	A	20050215	200570	E

Priority Applications (no., kind, date): US 2004708467 A 20040305

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
EP 1570793	A2	EN	13	4	
Regional Designated States,Original	AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU				
JP 2005246067	A	JA	16		
CA 2499437	A1	EN			

Alerting Abstract EP A2
NOVELTY - An elongate structure (12) has an inner lumen (12c) extended between proximal and distal ends (12a,12b), for receiving a guide **wire** (16) to facilitate insertion of **cutting** element (18) arranged at tapered portion of distal end, into **bone tunnel**, for removing the **bone** within the **opening** of **bone tunnel**.
DESCRIPTION - An INDEPENDENT CLAIM is also included for apparatus for preparing **bone tunnel**.
USE - For creating notch and positioning guide **wire** within **bone tunnel** for proper alignment of **bone** screw, **bone** plug and other anchoring elements during **arthroscopic** procedure.
ADVANTAGE - Provides an accurate, secure and trouble-free fixation of ligament within the **bone tunnel**.
DESCRIPTION OF DRAWINGS - The figure shows a perspective view of the **tunnel** notcher and guide **wire** delivery device.

12 elongate structure
12a proximal end of elongate structure
12b distal end of elongate structure
12c inner lumen
16 guide **wire**
18 **cutting** element

Title Terms /Index Terms/Additional Words: **TUNNEL**; NOTCH; GUIDE; **WIRE**; DELIVER; DEVICE; **ARTHROSCOPIC**; PROCEDURE; ELONGATE; STRUCTURE; INNER; LUMEN; RECEIVE; FACILITATE; INSERT; **CUT**; ELEMENT; **BONE**; REMOVE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/16; A61B-017/32; A61B-017/56; A61B-017/88			Main		"Version 7"
A61B-017/90			Secondary		"Version 7"

US Classification, Issued: 606079000

File Segment: EngPI; ;
DWPI Class: P31

18/5/5 (Item 5 from file: 347) **Links**
JAPIO

04892343 **Image available**
GUIDE SYSTEM FOR CUTTING SHIN-BONE AND BONE CUTTER

Pub. No.: 07-184943 [JP 7184943 A]
Published: July 25, 1995 (19950725)
Inventor: MURABAYASHI HAJIME
ISHIDA NORIYUKI
Applicant: KYOCERA CORP [358923] (A Japanese Company or Corporation), JP (Japan)
Application No.: 05-332641 [JP 93332641]
Filed: December 27, 1993 (19931227)
International Class: [6] A61F-002/46; A61B-017/14; A61F-002/38
JAPIO Class: 28.2 (SANITATION -- Medical)

ABSTRACT
PURPOSE: To find out the intercondylar eminence of the shin-**bone** by using a lowermost point gage and to execute positioning with this lowermost point as a reference by making it possible to insert a common K **wire** into the through **holes** bored in a rod and K **wire** guide member constituting a guide system for **cutting** the shin-**bone** when both members are combined.

CONSTITUTION: The rod 1 is bored with a screw hole la from its top end face and has the two through holes lb in a diametral direction. A connector has an approximately L-shaped side face and forms a rod hole 2a to accept the front end part of the rod 1, a bar-shaped supporting part 2b and a groove part 2c in the part to be fitted with the lowermost point gage 3. The K wire guide member 4 is freely movable in a horizontal direction along a supporting part 2b in a slide hole 4a, is bored with a pair of the through holes 4b in the lower part and is provided with a pair of guide flanges 4c extending in a lateral direction in the intermediate part. The common K wire 5 is made insertable into the through holes 1b, 4b when the rod 1 and the K wire guide member 4 are combined.

18/5/6 (Item 6 from file: 350) **Links**
Derwent WPIX

0013345109 *Drawing available*
WPI Acc no: 2003-432916/
Related WPI Acc No: 2003-791928
XRPX Acc No: N2003-345497
Tibia osteotome guide system for implanting artificial knee joint, uses spacers to adjust position of osteotome guide flange
Patent Assignee: KYOCERA CORP (KYOC)
Inventor: ISHIDA N; MURABAYASHI H

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 3314111	B2	20020812	JP 1993332641	A	19931227	200341	B
JP 7184943	A	19950725	JP 1993332641	A	19931227	200363	E

Priority Applications (no., kind, date): JP 1993332641 A 19931227

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
JP 3314111	B2	JA	5	7	Previously issued patent	JP 07184943

Alerting Abstract JP B2
NOVELTY - A K-wire guide (4), that enables insertion of K- wires (5) through radial holes (1b) formed in the tibia (T), is provided with a gauge (3) that locates the most abraded portion of the tibia. The gauge has a coupler (2) to fix a rod inserted into the bone narrow and to couple it with a guide flange for guiding the osteotome. Positioning spacers for adjusting the guide are provided between the rod insertion hole and the guide.
USE - For guiding osteotome used for **cutting** abraded portion of tibia on implanting artificial **knee** joint, replacing damaged or injured **knee** joint.
ADVANTAGE - Enables to insert K-wires at most abraded portion of the tibia and enables positioning of osteotome easily and accurately even by operator with less skills. Enables easy positioning adjustment and fine tuning. Provides safe and correct osteotomy.
DESCRIPTION OF DRAWINGS - The figure shows the side view of the tibia osteotome guide system.
1 rod
1b **hole**
2 coupler
3 gauge
4 K-**wire** guide
5 K-**wire**
T tibia

Title Terms /Index Terms/Additional Words: TIBIA; GUIDE; SYSTEM; IMPLANT; ARTIFICIAL; KNEE; JOINT; SPACE; ADJUST; POSITION; FLANGE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61F-002/46			Main		"Version 7"
A61B-017/14; A61F-002/38			Secondary		"Version 7"

File Segment: EngPI; ;
DWPI Class: P31; P32

18/5/8 (Item 8 from file: 347) **Links**
JAPIO

08185499 **Image available**
TOOL FOR UPPER TIBIA OSTEOTOMY

Pub. No.: 2004-298259 [JP 2004298259 A]
Published: October 28, 2004 (20041028)
Inventor: AKIZUKI AKIRA
Applicant: ZIMMER KK
AKIZUKI KIMIKO
Application No.: 2003-092135 [JP 200392135]
Filed: March 28, 2003 (20030328)
International Class: A61B-017/56; A61B-017/16

ABSTRACT

PROBLEM TO BE SOLVED: To provide a tool for the upper tibia osteotomy with which a secure osteotomy can be performed in an ideal condition.

SOLUTION: The tool for the upper tibia osteotomy is composed of a proximal **bone-cutting** surface establishing tool, a distal **bone- cutting** surface establishing tool 12 and a **cutter** guiding tool. A first guidewire W1 is inserted in the tibia through a guiding **hole** of the proximal **bone-cutting** surface establishing tool while the proximal **bone-cutting** surface establishing tool is supported by a reference **wire** which is inserted in the tibia at an upper position than the proximal **bone-cutting** surface. The distal **bone-cutting** surface establishing tool 12 is fixed to the first guidewire W1 through an insertion **hole** 23 and a rotation member 22 of the distal **bone-cutting** surface establishing tool 12 is rotated for an angle of **bone cutting**, while the center of rotation of the tool 12 is established at the inside of the opposite side of the tibia where the proximal **bone- cutting** surface and the distal **bone-cutting** surface intersect. A second guidewire W2 is inserted in the tibia through an insertion **hole** 26 and the **cutter** guiding tool 14 is fixed to the first guidewire W1 or to the second guidewire W2 to perform the **bone cutting** of the tibia.

18/5/17 (Item 17 from file: 347) **Links**
JAPIO

03776059 **Image available**
SUTURE MATERIAL ASSEMBLY FOR SURGERY

Pub. No.: 04-141159 [JP 4141159 A]
Published: May 14, 1992 (19920514)
Inventor: IKADA YOSHITO
TOMITA NAOHIDE
TAKAGI KUNIHIKO
UNIKI TSUKASA
Applicant: UNITIKA LTD [000450] (A Japanese Company or Corporation), JP (Japan)
Application No.: 02-264643 [JP 90264643]
Filed: October 02, 1990 (19901002)
International Class: [5] A61B-017/06
JAPIO Class: 28.2 (SANITATION -- Medical)
Journal: Section: C, Section No. 980, Vol. 16, No. 413, Pg. 77, September 02, 1992 (19920902)

ABSTRACT
PURPOSE: To facilitate the passing of a suture through a hole of a bone while preventing possible breakage of an edge of the suture by connecting a needle part, a file part and a synthetic fiber of the suture comprising them in the order.

CONSTITUTION: A needle part 1 uses a metal needle made of stainless steel. When a suture 3 comprising a synthetic fiber is made up of a multifilament, the hardness of an end is heightened by fusing or impregnation with a fixative. A file part 2 comprises a metallic **wire**, signal line, chain or a mixture thereof with the synthetic fiber, hence having a sufficient hardness. Moreover, to connect the file part 2 to the suture 3, a powder for polishing such as melt alumina may be attached to the surface of the suture. The suture 3 herein used is a fibrous matter made of polyester, polyethylene, polypropylene or the like. To fix a **bone** having a cracking or the like using a suture material assembly 4 for surgery, a **hole** 6 is opened in **bones** 5a and 5b and the needle part 1 **inserted through** the **hole** 6 made in the **bone**. Then, a sharp edge 8 of the **bone** generated in the perimeter of the **hole** is scraped off with the file part 2. Finally, after the **bone** 5a is fixed firmly with the suture 3, the needle part 1 and the file part 2 are **cut** off.

18/5/30 (Item 30 from file: 350) **Links**
Derwent WPIX

0015298695 *Drawing available*
WPI Acc no: 2005-648869/200566
XRPX Acc No: N2005-531634
Guide system for resecting bone through incision for arthroscopic procedure, has wire saw inserted through at least one of incisions and guided by alignment pins while moving to resect bone
Patent Assignee: ARAM L (ARAM-I); AUGER D (AUGE-I); DEPUY PROD INC (DEPU-N); HAYDEN A (HAYD-I)
Inventor: ARAM L; AUGER D; HAYDEN A

Patent Family (3 patents, 38 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050216023	A1	20050929	US 2004812216	A	20040329	200566	B
EP 1582156	A1	20051005	EP 2005251835	A	20050324	200566	E
AU 2005201123	A1	20051013	AU 2005201123	A	20050315	200611	E

Priority Applications (no., kind, date): US 2004812216 A 20040329

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050216023	A1	EN	30	34		
EP 1582156	A1	EN				
Regional Designated States,Original	AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU					

Alerting Abstract US A1
NOVELTY - Two alignment pins (26,28) are inserted through one of the incisions into the **bone** in two orientations. Alignment pins are configured and oriented to define the resection surface of a reference through which the **bone** is to be resected. A **wire saw** (30) is **inserted through** at least one of the incisions and guided by the alignment pins while moving to resect the **bone**.
DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

f. a guide apparatus;
g. a method of resecting bone of patient; and
h. a bone resection apparatus.

USE - For resecting bone through incision for arthroscopic procedure.
ADVANTAGE - Provides reduced tourniquet time, reduced anesthetic requirements and reduction in the risk of

infection by allowing surgeon to prepare the bone arthroscopically. Ensures faster recovery, less pain, better quadriceps functions, smaller scars and shorter hospital stay. Ensures huge cost savings for both orthopaedic manufacturer and hospital since instrumentation is simple to manufacture.
DESCRIPTION OF DRAWINGS - The figure shows the perspective view of the leg of a patient.
12 Tibia
14 Femur
26,28 Pins
30 Wire saw

Title Terms /Index Terms/Additional Words: GUIDE; SYSTEM; BONE; THROUGH; INCISION; ARTHROSCOPIC; PROCEDURE; WIRE; SAW; INSERT; ONE; ALIGN; PIN; MOVE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/17; A61B-017/56; A61B-017/74			Main		"Version 7"
A61B-017/15			Secondary		"Version 7"

US Classification, Issued: 606086000, 606082000, 606087000, 606096000

File Segment: EngPI; ;
DWPI Class: P31

18/5/33 (Item 33 from file: 350) **Links**
Derwent WPIX

0014777823 *Drawing available*
WPI Acc no: 2005-125500/200514
XRPX Acc No: N2005-108229
Inramedullary nail for repair of fractured bones, has a channel mounted flexible elongate wire guidable into a proximal lateral aperture to emerge from a distal lateral aperture, while projecting the trailing end from the proximal aperture
Patent Assignee: TANDON V D (TAND-I)
Inventor: TANDON V D

Patent Family (4 patents, 107 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
GB 2404342	A	20050202	GB 200417039	A	20040730	200514	B
WO 2005011509	A1	20050210	WO 2004GB3300	A	20040730	200514	E
EP 1648322	A1	20060426	EP 2004743622	A	20040730	200628	E
			WO 2004GB3300	A	20040730		
US 20060122601	A1	20060608	WO 2004GB3300	A	20040730	200639	E
			US 2006339555	A	20060126		

Priority Applications (no., kind, date): GB 200317921 A 20030731

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
GB 2404342	A	EN	23	17		
WO 2005011509	A1	EN				
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW						
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
EP 1648322	A1	EN			PCT Application	WO 2004GB3300
					Based on OPI patent	WO 2005011509
Regional Designated States,Original	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR					
US 20060122601	A1	EN			Continuation of application	WO 2004GB3300

Alerting Abstract GB A
NOVELTY - Inramedullary nail has a cavity (12), with a channel element (16) mounted whereby a leading end (26) of a flexible elongate wire (22) is guidable from insertion into a proximal lateral aperture (20) to emerge from a distal lateral aperture (30), with the trailing end of the wire (22) still projecting from the proximal aperture (20).
DESCRIPTION - When the nail is inserted into the medulla of a **bone**, across a fracture, it can be secured to the **bone** near both its ends. Two channel guides (31,33) of the channel (16), with deflected guide wall portions (34, 38), or two conduits guiding respective fixing wires between respective proximal and distal **apertures**, may also be provided.
USE - Inramedullary nail for use in the repair of **bones** with fractures.
ADVANTAGE - Nails according to the invention provide significant advantages over known nails in that their use allows for a quicker and yet highly reliable surgical procedure. A nail of the invention is insertable into the medullary cavity of a **bone** in a conventional manner. By use of a jig attached to the proximal end of the nail, a leading end of a flexible elongate **wire** which carries a **cutting** or grinding tip is accurately guided to the outside of the **bone** overlying one of the proximal lateral **apertures** of the nail, and is used to produce a **hole** in the **bone** at that position. Alternatively, to prevent blunting of the tip of this **wire**, the **hole drilled through** the **bone** adjacent to the proximal lateral **aperture** in the nail may be made with a drill guided by a jig. The **wire** is then **inserted through** the **aperture** and passed down the cavity, guided by the relevant guide means provided therein, or else is passed down a specific conduit, and guided out of the respective distal lateral **aperture**. The **wire** may then be rotated or reciprocated to engage the **cutting** or grinding tip with the **bone** tissue and create a **hole** in the **bone** adjacent the distal lateral **aperture** so that it can **pass through** and secure the distal part of the nail in the distal region of the **bone**. This is achieved without significantly disturbing the flesh covering the distal regional of the **bone**. Thus, both ends of the nail can be secured to the **bone** in a reliable manner by use of only one or two fixing wires (although more may be possible) without any need for a second operation of fixation of the proximal or distal end by a transverse screw or bolt IS or other securing device. However, such fixation may still be undertaken if deemed necessary, and the fixing wires used in respect of the nail of the invention will not interfere with that.
DESCRIPTION OF DRAWINGS - The drawings show a schematic perspective and cross sectional views of a partially **cut** away, of an inramedullary nail.
12 Inramedullary nail cavity
16 Nail channel
20 Proximal lateral **aperture**
22 Flexible elongate **wire**
26 Flexible **wire** leading end
30 Distal lateral **aperture**
31,33 Channel guides
34,38 Deflected guide wall portions

Title Terms /Index Terms/Additional Words: NAIL; REPAIR; FRACTURE; BONE; CHANNEL; MOUNT; FLEXIBLE; ELONGATE; WIRE; GUIDE; PROXIMITY; LATERAL; APERTURE; EMERGENCE; DISTAL; PROJECT; TRAILING; END

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-0017/72	A	I	F	B	19950101
A61B-0017/56	A	I	F	B	20060101

A61B-0017/72	A	I		R	20060101
A61B-0017/68	C	I		R	20060101

US Classification, Issued: 606064000

File Segment: EngPI; ;
DWPI Class: P31

18/5/35 (Item 35 from file: 350) **Links**
Derwent WPIX

0014437410 *Drawing available*
WPI Acc no: 2004-627930/200461
XRPX Acc No: N2004-496519
Trocar for osteo-medullary biopsy, has tube defining longitudinal canal with strands sliding in canal and loop crossing tube by radial orifice, and circular pad maintaining loop in open position before actuation of cutting thread
Patent Assignee: SLAMA B (SLAM-I); VERRA Y (VERR-I); ZERAZHI H (ZERA-I)
Inventor: SLAMA B; VERRA Y; ZERAZHI H

Patent Family (4 patents, 107 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
FR 2851450	A1	20040827	FR 20032292	A	20030225	200461	B
WO 2004075759	A1	20040910	WO 2004FR391	A	20040219	200461	E
EP 1599138	A1	20051130	EP 2004712592	A	20040219	200578	E
			WO 2004FR391	A	20040219		
EP 1599138	B1	20061025	EP 2004712592	A	20040219	200670	E
			WO 2004FR391	A	20040219		

Priority Applications (no., kind, date): FR 20032292 A 20030225

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
FR 2851450	A1	FR	11	5		
WO 2004075759	A1	FR				
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW					
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
EP 1599138	A1	FR			PCT Application	WO 2004FR391
					Based on OPI patent	WO 2004075759
Regional Designated States,Original	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
EP 1599138	B1	FR			PCT Application	WO 2004FR391
					Based on OPI patent	WO 2004075759
Regional Designated	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL					

States,Original	PT RO SE SI SK TR

Alerting Abstract FR A1

NOVELTY - The trocar has a tube (1) defining a longitudinal canal (9) and penetrating a bone (3). The canal has a cutting thread (10) forming a loop and free ends fixed to a traction handle (13) situated at a trocar handle (7). Strands slide in the canal and loop crosses the tube by a radial orifice (14). A circular pad (15) maintains the loop in open position at a contact of an inner wall of the tube, before actuation of the thread.

USE - Used for osteo-medullary biopsy (claimed).

ADVANTAGE - The bone marrow particle is pulled by maintaining the trocar once it is placed in the bone, thus reducing the pain for the patient, and reducing collateral damages on the peropsteum on the bone and the surrounding marrow. Thus the strain of the doctors is reduced and the quality of sampling is ensured without the medical risks.

DESCRIPTION OF DRAWINGS - The drawing shows a perspective view of a trocar.

1 Tube

7 Trocar handle

9 Longitudinal canal

10 Cutting thread

13 Traction handle

14 Radial orifice

15 Circular pad

Title Terms /Index Terms/Additional Words: TROCAR; OSTEO; MEDULLARY; BIOPSY; TUBE; DEFINE; LONGITUDE; CANAL; STRAND; SLIDE; LOOP; CROSS; RADIAL; ORIFICE; CIRCULAR; PAD; MAINTAIN; OPEN; POSITION; ACTUATE; CUT; THREAD

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-0010/00	A	I		R	20060101
A61B-0017/32	A	N		R	20060101
A61B-0017/34	A	N		R	20060101
A61B-0010/00	A	I	F	B	20060101
A61B-0010/00	C	I		R	20060101
A61B-0017/32	C	N		R	20060101
A61B-0017/34	C	N		R	20060101

File Segment: EngPI; ;
DWPI Class: P31

18/5/60 (Item 60 from file: 350) **Links**
Derwent WPIX

0007994758 *Drawing available*
WPI Acc no: 1997-086499/199708
XRPX Acc No: N1997-071352
Intramedullary bone cutting saw for orthopaedic surgery - with blade inserted through bored intramedullary canal and motor coupled to cutting blade to rotate blade extended to cutting position
Patent Assignee: GENESIS ORTHOPEDICS (GENE-N)
Inventor: DE TOLEDO F A; SPIEVACK A R

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5591170	A	19970107	US 1994324514	A	19941014	199708	B

Priority Applications (no., kind, date): US 1994324514 A 19941014

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 5591170	A	EN	15	12	

Alerting Abstract US A
The saw has a variable speed motor (12) coupled to a power source (11). The motor rotates a bevel gear (13) that meshes with and rotates a second bevel gear (23). The drive shaft (22) is coupled to the second bevel gear and is rotated by the motor. A speed control trigger (14) is coupled to the motor to vary the drive shaft speed of rotation. The cutting blade (320) is extended from the torque tube (24) by urging the drive shaft to the distal end of the torque tube. The blade is pulled into the torque tube when the drive shaft is pulled toward the proximal end of the drive housing (100).
The rotation of the drive shaft cuts a section of bone progressing radially outward from the drive shaft into the bone. The cutting blade is extended until the blade edge extends beyond the bone outer wall or manually by the surgeon.
USE/ADVANTAGE - Motor powered saw so quick and less tiring for surgeon.

Title Terms /Index Terms/Additional Words: INTRAMEDULLARY; BONE; CUT; SAW; ORTHOPAEDIC; SURGICAL; BLADE; INSERT; THROUGH; BORE; CANAL; MOTOR ; COUPLE; ROTATING; EXTEND; POSITION

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/14			Main		"Version 7"
A61B-017/16			Secondary		"Version 7"

US Classification, Issued: 606082000, 030166300, 030122000, 606080000, 606177000, 606178000

File Segment: EngPI; EPI;
DWPI Class: S05; P31
Manual Codes (EPI/S-X): S05-B03

18/5/62 (Item 62 from file: 350) **Links**
Derwent WPIX

0007888889 *Drawing available*
WPI Acc no: 1996-029641/199603
Related WPI Acc No: 1993-100622
XRPX Acc No: N1996-025174
Method of dilating incision - involves inserting stylet, with inner bore, through incision prior to withdrawing inner bore and providing pair of cylindrical tubes which can be used to dilate incision
Patent Assignee: AOB PROPERTIES LP (AOBP-N); BEI MEDICAL (BEIM-N)
Inventor: BONATI A O; WARE P J

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5472426	A	19951205	US 1991758013	A	19910912	199603	B
			US 1993108036	A	19930817		
US 5472426	C1	20030902				200366	E

Priority Applications (no., kind, date): US 1991758013 A 19910912; US 1993108036 A 19930817

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 5472426	A	EN	17	26	C-I-P of application	US 1991758013
					C-I-P of patent	US 5269797

Alerting Abstract US A
The method comprises the steps of inserting a stylet having an inner bore and an outer barrel through the incision and withdrawing the inner bore and then providing a first tube of cylindrical construction having a first predetermined length and a first predetermined diameter. It involves providing a second tube of cylindrical construction having a second predetermined length greater than the first predetermined length and a second predetermined diameter less than the first predetermined diameter but greater than an outer diameter of the outer barrel so that the first tube telescopically receives the second tube and so that the second tube telescopically receives the outer barrel.
The method continues by the step of tapering a leading end of the second tube so that the leading end is easily slid into a ligament without imparting trauma to the ligament and then dilating an incision a first amount by inserting the tapered leading end of the second tube through the incision. It then involves dilating the incision further by inserting the leading end of the first tube in to it, the insertion being accomplished by sliding the first tube toward the incision over the second tube until the leading end of the first tube is flush with the leading end of the second tube, the second tube serving to guide the first tube to the incision. It then involves withdrawing the second tube from the inner bore of the first tube and leaving the first tube in the incision so that subsequent surgical instruments may be introduced to a surgical site through the inner bore of the first tube.
USE - Esp. for performing cervical disectomy.

Title Terms /Index Terms/Additional Words: METHOD; DILATED; INCISION; INSERT; STYLET; INNER;

BORE; THROUGH; PRIOR; WITHDRAW; PAIR; CYLINDER; TUBE; CAN

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61M-005/00; A61M-005/178			Main		"Version 7"
A61B-010/00; A61M-029/00			Secondary		"Version 7"

US Classification, Issued: 604164000, 606191000, 128751000

File Segment: EngPI; ;
DWPI Class: P31; P34

18/5/72 (Item 72 from file: 350) **Links**
Derwent WPIX

0006812610 *Drawing available*
WPI Acc no: 1994-199882/199424
XRPX Acc No: N1994-157323
Self-drilling cutting wire tool - is for piercing through bones and fixing them, using point with bit and shaft, point having semi-cylindrical shape with semicircular cross-section
Patent Assignee: SCHEWIOR T (SCHE-I)
Inventor: SCHEWIOR T

Patent Family (3 patents, 43 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1994012107	A1	19940609	WO 1993DE1138	A	19931129	199424	B
AU 199455596	A	19940622	AU 199455596	A	19931129	199436	E
DE 4396051	T	19970313	DE 4396051	A	19931129	199716	E
			WO 1993DE1138	A	19931129		

Priority Applications (no., kind, date): DE 19933452 U 19930311; DE 199217744 U 19921208; DE 199216218 U 19921128; DE 19938283 U 19930602

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1994012107	A1	DE	21	10		
National Designated States,Original	AU BB BG BR BY CA CZ DE FI HU JP KP KR KZ LK MG MN MW NO NZ PL RO RU SD SK UA US VN					
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE					
AU 199455596	A	EN			Based on OPI patent	WO 1994012107
DE 4396051	T	DE	1	0	PCT Application	WO 1993DE1138
					Based on OPI patent	WO 1994012107

Alerting Abstract WO A1
The point (3) of the **cutting wire** (1) tool is semicylindrical with a semicircular cross-section and an even surface (8) extending in the direction of the longitudinal axis. The point is formed on the outermost end as a half cone (5) with two **cutting** edges. The **opening** angle (a) of the half-cone in relation to the longitudinal axis amounts to between 30 and 65 deg.
To the point connects a further semicylindrical section (4) with approx. semicircular cross-section, limited by the surface (8') in an axial direction, and which has a larger semi-dia. (d4) than the semi-dia. (d3) of the point (3). The point in the section (4) evolves forming a semiconical shoulder, which with the surface (8') forms two further **cutting** edges, whereby the **opening** angle of the shoulder in relation to the longitudinal axis amounts to between 20 and 45 deg.

USE/ADVANTAGE - Self-drilling **cutting wire** which is adequately stiff and which can be applied to the **bone** at a considerable inclined angle without the risk of slipping away.

Title Terms /Index Terms/Additional Words: SELF; DRILL; CUT; WIRE; TOOL; PIERCE; THROUGH; BONE; FIX; POINT; BIT; SHAFT; SEMI; CYLINDER; SHAPE; SEMICIRCULAR; CROSS-SECTION

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/16			Main		"Version 7"
A61B-017/58; B23B-051/00			Secondary		"Version 7"

File Segment: EngPI; ;
DWPI Class: P31; P54

18/5/78 (Item 78 from file: 350) **Links**
Derwent WPIX

0006101308 *Drawing available*
WPI Acc no: 1992-341330/
XRPX Acc No: N1992-260349

Borer for forming ring-shaped holes in surgical practice - comprises tubular housing cutting head fitted at end of housing, and piston with hole-located on spring in housing

Patent Assignee: SYNTHES AG (SYNT-N); SYNTHES USA (SYNT-N)
Inventor: WILSON F

Patent Family (3 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 4208089	A	19921008	DE 4208089	A	19920313	199242	B
US 5197967	A	19930330	US 1991679259	A	19910402	199315	E
DE 4208089	C2	19940428	DE 4208089	A	19920313	199415	E

Priority Applications (no., kind, date): US 1991679259 A 19910402

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
DE 4208089	A	DE	6	4	
US 5197967	A	EN	6	4	
DE 4208089	C2	DE	6	4	

Alerting Abstract DE A
The end of the piston (30) in the housing (12) turned away from the screw spring (34) is displaceable from inside the **cutting** head (14) to outside of it. At its front end, the piston has an outwardly directed thickened formation (38) which has virtually the same dia. as a largest internal dia. of the **cutting** head (14).
The piston has a **hole** (32) in which guide means (36) in the form of a Kirschner **wire** are fitted, which are connectable with the material to be bored. The **cutting** head (14) consists of pref. circularly shaped projections (20) such as fillets, which carry **cutting** edges (18), and between such projections are intermediate spaces (24). Means are incorporated which prevent the projections from bending against each other during **cutting**.
ADVANTAGE - For use in **knee** operations e.g. for treatment of compression fractures of the tibia and femur.

Title Terms /Index Terms/Additional Words: BORE; FORMING; RING; SHAPE; HOLE; SURGICAL; PRACTICE; COMPRISE; TUBE; HOUSING; CUT; HEAD; FIT; END; PISTON; LOCATE; SPRING

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position Main	Status	Version Date "Version 7"
A61B-017/16;					

A61F-017/00					

US Classification, Issued: 606079000, 606080000

File Segment: EngPI; ;
DWPI Class: P31; P32

18/5/79 (Item 79 from file: 350) **Links**
Derwent WPIX

0006062150 *Drawing available*
WPI Acc no: 1992-299715/
Related WPI Acc No: 1993-219400; 1994-056212
XRPX Acc No: N1992-229568
Method for preparing patellar prosthesis - involves forming passage in patella before reaming to form cavity to receive prosthesis, using guide rod
Patent Assignee: MIKHAIL M W (MIKH-I); MIKHAIL N E (MIKH-I); MIKHAIL W E M (MIKH-I)
Inventor: MIKHAIL W E M

Patent Family (12 patents, 21 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1992013503	A1	19920820	WO 1992US942	A	19920206	199236	B
AU 199213760	A	19920907	AU 199213760	A	19920206	199249	E
			WO 1992US942	A	19920206		
ZA 199200876	A	19921125	ZA 1992876	A	19920206	199301	E
US 5180384	A	19930119	US 1991652882	A	19910208	199306	E
EP 570500	A1	19931124	EP 1992906386	A	19920206	199347	E
			WO 1992US942	A	19920206		
BR 199205541	A	19940510	BR 19925541	A	19920206	199422	E
			WO 1992US942	A	19920206		
AU 651044	B	19940707	AU 199213760	A	19920206	199431	E
JP 6507325	W	19940825	JP 1992505768	A	19920206	199438	E
			WO 1992US942	A	19920206		
EP 570500	A4	19940720	US 1993126166	A	19930923	199532	E
CA 2101941	C	19951114	CA 2101941	A	19920206	199605	E
EP 570500	B1	19981202	EP 1992906386	A	19920206	199901	E
			WO 1992US942	A	19920206		
DE 69227761	E	19990114	DE 69227761	A	19920206	199908	E
			EP 1992906386	A	19920206		
			WO 1992US942	A	19920206		

Priority Applications (no., kind, date): US 1991652882 A 19910208

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
WO 1992013503	A1	EN	26	18	
National Designated States,Original	AU BR CA JP				

Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IT LU MC NL SE					
AU 199213760	A	EN			PCT Application	WO 1992US942
					Based on OPI patent	WO 1992013503
ZA 199200876	A	EN	13			
US 5180384	A	EN	9	18		
EP 570500	A1	EN	26	18	PCT Application	WO 1992US942
					Based on OPI patent	WO 1992013503
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IT LI LU NL SE					
BR 199205541	A	PT			PCT Application	WO 1992US942
					Based on OPI patent	WO 1992013503
AU 651044	B	EN			Previously issued patent	AU 9213760
					Based on OPI patent	WO 1992013503
JP 6507325	W	JA			PCT Application	WO 1992US942
					Based on OPI patent	WO 1992013503
EP 570500	A4	EN				
CA 2101941	C	EN				
EP 570500	B1	EN			PCT Application	WO 1992US942
					Based on OPI patent	WO 1992013503
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IT LI LU NL SE					
DE 69227761	E	DE			Application	EP 1992906386
					PCT Application	WO 1992US942
					Based on OPI patent	EP 570500
					Based on OPI patent	WO 1992013503

Alerting Abstract WO A1
The method comprises forming an elongated passageway in the patella from the articular surface to a depth at least as deep as the depth intended for the patellar prosthesis, and positioning elongated guides in the passageway. The method then involves reaming a cavity in the patella having a size and configuration to receive the patellar prosthesis while using the guide as a guide to determine the position of the cavity.
The step of reaming the cavity may include the step of providing a cannulated reamer having a cannulation extending along the path of reaming. It also involves positioning the reamer such that the elongated guide extends through the cannulation.
USE - A method of preparing a patella having an articular surface with an apex for a patellar prosthesis implant.

Title Terms /Index Terms/Additional Words: METHOD; PREPARATION; PROSTHESIS; FORMING; PASSAGE; PATELLA; REAM; FORM; CAVITY; RECEIVE; GUIDE; ROD

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date

A61B; A61F-002/38; A61F-005/04			Main		"Version 7"
A61B-017/16			Secondary		"Version 7"

US Classification, Issued: 606080000, 623020000, 606079000

File Segment: EngPI; ;
DWPI Class: P31; P32

18/5/82 (Item 82 from file: 350) **Links**
Derwent WPIX

0005786991 *Drawing available*
WPI Acc no: 1992-009168/199202
XRPX Acc No: N1992-007051
Bone pinning system - has applicator guide tube through which absorbable pin is displaced by push rod
Patent Assignee: AMERICAN CYANAMID CO (AMCY)
Inventor: DICARLO P

Patent Family (8 patents, 16 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 463551	A	19920102	EP 1991110021	A	19910619	199202	B
AU 199179388	A	19920102				199210	E
CA 2045772	A	19911229				199213	E
US 5180388	A	19930119	US 1990545398	A	19900628	199306	E
AU 655422	B	19941222	AU 199179388	A	19910627	199507	E
EP 463551	B1	19951220	EP 1991110021	A	19910619	199604	E
DE 69115574	E	19960201	DE 69115574	A	19910619	199610	E
			EP 1991110021	A	19910619		
ES 2083484	T3	19960416	EP 1991110021	A	19910619	199623	E

Priority Applications (no., kind, date): US 1990545398 A 19900628

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 463551	A	EN				
Regional Designated States,Original	AT BE CH DE ES FR GB GR IT LI LU NL SE					
CA 2045772	A	EN				
US 5180388	A	EN	6	6		
AU 655422	B	EN			Previously issued patent	AU 9179388
EP 463551	B1	EN	8	6		
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IT LI LU NL SE					
DE 69115574	E	DE			Application	EP 1991110021
					Based on OPI patent	EP 463551
ES 2083484	T3	ES			Application	EP 1991110021
					Based on OPI patent	EP 463551

Alerting Abstract EP A

An absorbable **bone** pin (50) is inserted in place by a cannulated applicator (10) which is used to help drill a **hole** (44) for the **bone** pin (50) and accurately measure its depth. The applciator (10) has a scaled recess (20) in the handle which is used to measure the progress (depth) of the **wire**-type drill (30) as it forms the **hole**. The drill (30) has a marking (36) on it for registration with the applicator scale (22).

The **bone** pin (50) is selected or **cut** to an approp. length based on the depth of the **hole** (44) and inserted in place by a push rod (52) through the applicator guide tube. The applicator can have one or two guide tubes, and the tubes can be parallel or at angles to one another, depending on the usage desired.

USE/ADVANTAGE - A system for securing fractured **bones** (40,42) in place without the use of wires. With a two-tube applicator, it is possible to better maintain the **bone**'s pieces in place under compression until a **bone** pin is installed. @(7pp Dwg.No.1/6)@

Title Terms /Index Terms/Additional Words: BONE; PIN; SYSTEM; APPLY; GUIDE; TUBE; THROUGH; ABSORB; DISPLACE; PUSH; ROD

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/58; A61F-002/28			Main		"Version 7"
A61B-017/16			Secondary		"Version 7"

US Classification, Issued: 623016000, 606072000, 606080000, 606096000, 606099000, 606102000, 606104000

File Segment: EngPI; ;
DWPI Class: P31; P32

18/5/89 (Item 89 from file: 350) **Links**
Derwent WPIX

0003949941
WPI Acc no: 1987-041310/
XRPX Acc No: N1987-031295
Surgical saw conductor - has curved working part with sharp edge on end and handle inclined to it
Patent Assignee: TRAUMA ORTHOPAEDICS (TRAU-R)
Inventor: KOKOREV A A; PYANOV N I; TEREKHOVA N V

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
SU 1232231	A	19860523	SU 3739476	A	19840515	198706	B

Priority Applications (no., kind, date): SU 3739476 A 19840515

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
SU 1232231	A	RU	2	2	

Alerting Abstract SU A
The conductor for surgical saw (1) includes handle (2), and working part (3) with groove (4) and sharp edge (4). The surgical saw conductor is taken through a small incision through the whole thickness of the soft tissues and then by moving it forwards around the perimeter of the **bone** a narrow strip of soft tissue is separated off by the sharp edge (5). The flexible surgical **saw** (1) is introduced into the groove (4) of the working part (3) of the conductor and the **bone** is **sawn** through by moving the **saw** (1) backwards and forwards. The blade of the **saw** (1) can pass freely through the groove (4).
ADVANTAGE - Construction of the conductor makes it possible to separate off the periosteum when taking a **wire** surgical **saw** to the **bone**, and reduces the time taken by the operation and the trauma to the soft tissues.
Bul.19/23.5.86

Title Terms /Index Terms/Additional Words: SURGICAL; SAW; CONDUCTOR; CURVE; WORK; PART; SHARP; EDGE; END; HANDLE; INCLINE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/14			Secondary		"Version 7"

File Segment: EngPI; ;

DWPI Class: P31

18/5/93 (Item 93 from file: 350) **Links**
Derwent WPIX

0003413089
WPI Acc no: 1985-182631/
XRPX Acc No: N1985-137005
Bone surface treatment instrument - body has ring groove of depth greater than dia. of wire saw, and width at least twice its dia.
Patent Assignee: MEDINSTRUMENT PROD (MEDI-R)
Inventor: REPIN V A; SABITOV V K H; ZELENOV E S

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
SU 1132929	A	19850107	SU 3583413	A	19830420	198530	B

Priority Applications (no., kind, date): SU 3583413 A 19830420

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
SU 1132929	A	RU	2	1	

Alerting Abstract SU A
The **bone** surface treatment instrument consists of a shank (1) and a body (2) made with a spiral groove (3) which holds a **wire saw** (5) attached at one end (6) to the shank (1) while its other end (7) is pressed by fastener (8) in a conical **aperture** (9). In the body (2)next to the spiral groove (3) there is a ring recess (10). In the end of the body (2) there is a through slit (11) into which the end of **wire saw** (5) is inserted once winding is completed and pressed in place by fastener (8).
The (1) of body (2) is fitted in an electric drill and it is brought into rotation, and the **bone** is treated using the cylindrical surface of the working part (2). If it is necessary to treat a sharp edge of the **bone**, the device is positioned with its ring recess (10) on it.
ADVANTAGE - Reduces trauma to the tissues. Bul.1/7.1.85

Title Terms /Index Terms/Additional Words: BONE; SURFACE; TREAT; INSTRUMENT; BODY; RING; GROOVE; DEPTH; GREATER; DIAMETER; WIRE; SAW; WIDTH; TWICE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/16			Secondary		"Version 7"

File Segment: EngPI; ;
DWPI Class: P31

18/5/95 (Item 95 from file: 350) **Links**
Derwent WPIX

0003188732
WPI Acc no: 1984-288167/
Wire breakage reduction method for orthopaedic surgery - comprises using radius cutters to remove external stress-raising corners from holes drilled in bone fragments
Patent Assignee: KLEIN H A (KLEI-I)
Inventor: KLEIN H A; NISSENBAAU I

Patent Family (4 patents, 13 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1984004241	A	19841108	WO 1984US690	A	19840503	198446	B
AU 198429654	A	19841119				198506	E
EP 141853	A	19850522	EP 1984902151	A	19840503	198521	E
US 4590929	A	19860527	US 1983491244	A	19830503	198624	E

Priority Applications (no., kind, date): US 1983491244 A 19830503

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
WO 1984004241	A	EN	18	4	
National Designated States,Original	AU JP				
Regional Designated States,Original	AT BE CH DE FR GB LU NL SE				
EP 141853	A	EN			
Regional Designated States,Original	AT BE CH DE FR GB LI LU NL SE				

Alerting Abstract WO A
The wire used for binding together bone fragments is **passed through apertures** drilled in the **bone**. Radius **cutters** (20) are used to remove stress-raising edges from the drilled **apertures**. The **cutters** have curved **cutting** surfaces (25) and a concentric and pref. integral pilot drill (23).
The radius **cutters** have stops (26) to limit penetration into the **aperture**. The pilot drill can be a non-**cutting** member. The **cutters** subtend an arc of 90 deg.
USE - As **cutter** for reducing the incidence of breakage of **wire** used for securing fractured **bone** fragments together.

Title Terms /Index Terms/Additional Words: **WIRE**; BREAK; REDUCE; METHOD; **ORTHOPAEDIC**; SURGICAL; COMPRISE; RADIUS; **CUT**; REMOVE; EXTERNAL; STRESS; RAISE; CORNER; **HOLE**; DRILL; **BONE**; FRAGMENT

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61F-017/00			Main		"Version 7"
A61F-005/04; B23B-041/00; B23B-051/00			Secondary		"Version 7"

US Classification, Issued: 606074000, 408224000, 408225000, 606079000, 606080000, 606103000

File Segment: EngPI; ;
DWPI Class: P32; P54

18/5/96 (Item 96 from file: 350) **Links**
Derwent WPIX

0003145852
WPI Acc no: 1984-242042/
XRPX Acc No: N1984-181068
Bone tissue cutting and working device - has curved tubular housing with saw attached by tension spring
Patent Assignee: KAZAN MEDINSTRUMENT (KZME-R)
Inventor: KILKINOV A A; KOLTSOVA L A; PEPELYAEV V G

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
SU 1069795	A	19840130	SU 3478432	A	19820730	198439	B

Priority Applications (no., kind, date): SU 3478432 A 19820730

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
SU 1069795	A	RU	3	1	

Alerting Abstract SU A
To reduce the traumatic effect of the operation for obtaining taper **cuts** in thin-walled **bone** tissues, the **cutter** holder is fitted to the body in such a way that it can be fixed by handles connected by a tension spring to the body and a ring-handle. The body is tubular with curved ends, the rail is arranged movably at an angle to the body in the holder slot, where it can be fixed. The **cutting** tool is made as a
"GIGLI" saw.
The **cutting** tool (2) effects a reciprocating movement. The **cutting** force is provided by the spring (7), which also ensures rotation of the body (1) with the **saw** (2) about the vertical axis. The required diameter of the **bone** chipping and its taper is set with the aid of the rail (3) in the holder (5) by adjusting the latter in the body (1).
USE/ADVANTAGE - **Saw** mechanism for taper **cuts** in **bone** tissues when **opening** up the top jaw cavity, ensuring correct **bone** chipping diameter and taper and thus reducing the traumatic effect. Bul.4/30.1.84

Title Terms /Index Terms/Additional Words: BONE; TISSUE; CUT; WORK; DEVICE; CURVE; TUBE; HOUSING; SAW; ATTACH; TENSION; SPRING

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/16			Secondary		"Version 7"

File Segment: EngPI; ;
DWPI Class: P31

18/5/99 (Item 99 from file: 350) **Links**
Derwent WPIX

0002872844
WPI Acc no: 1983-H7646K/
XRPX Acc No: N1983-101106
Osteotomy appts. - conductors have arched canals and V-shaped dilators with apertures for saw passage
Inventor: KARANFILOV I N

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
SU 948378	B	19820807	SU 3221270	A	19801224	198323	B

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
SU 948378	B	RU	2	2	

Alerting Abstract SU B
The osteotomy appts. has a yoke (1) which has conductors (2) holding a **Gigli saw** (3). The conductors (2) are made with arched canals (A) and are equipped with v-shaped dilators (4) with **apertures** (B) in which the **Gigli saw** (3) is positioned. Also, the yoke (1) is telescopic. The trauma involved in the operation of osteotomy is reduced because when performing osteotomy with this appts it is not necessary to **cut** through the soft tissues, because the conductors (2) are made with arched canals (A) and are equipped with v-shaped dilators (4) with **apertures** (B) which hold the **Gigli saw** (3), and because the yoke (I) is telescopic.
This allows wide exposure of the **bone** to be **cut** without **cutting** through the soft tissues, and so reduces the risk of complications caused by infection and increases the effectiveness of treatment. Bul.29/7.8.82

Title Terms /Index Terms/Additional Words: OSTEOTOMY; APPARATUS; CONDUCTOR; ARCH; CANAL; V-SHAPED; DILATED; APERTURE; SAW; PASSAGE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/16			Secondary		"Version 7"

File Segment: EngPI; ;
DWPI Class: P31

18/5/103 (Item 103 from file: 350) **Links**
Derwent WPIX

0000951474
WPI Acc no: 1975-F5880W/
Right-angled driving device handpiece - has attachments for drilling and wire driving esp. for perforation of bones
Patent Assignee: STRYKER CORP (STYC)
Inventor: CRIM P E; WARFIELD W

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 3882737	A	19750513	US 1972229680	A	19720228	197521	B
			US 1973428843	A	19731227		
			US 1973428843	A	19731227		

Priority Applications (no., kind, date): US 1973428843 A 19731227
Alerting Abstract US A
An inner drill bit is connectible to an output shaft by a pair of clutch mechanisms which are normally spring-biased into a disconnected position. The outer drill bit normally rotates with the inner drill bit but is permitted to move axially and angularly relative to the inner drill bit through a predetermined distance. The cutting end of the inner drill bit extends axially beyond the cutting end of the outer drill bit. Alternately, a wire driving attachment can be connected to the handpiece assembly and includes a chuck structure mountable upon the output end of the casing and drivingly connectible to the output shaft.

Title Terms /Index Terms/Additional Words: RIGHT; ANGLE; DRIVE; DEVICE; HANDPIECE; ATTACH; DRILL; WIRE; PERFORATION; BONE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
F16H-037/06			Secondary		"Version 7"

US Classification, Issued: 074665S00, 192034000, 192108000

File Segment: EngPI; ;
DWPI Class: Q64

```
Set     Items   Description
S1      96418   S (ARTHROSCOP? OR PATELLA? OR KNEE? ? OR BONE? ? OR CONDYL? OR ORTHOPED?
OR ORTHOPAED? OR OSSEOUS? OR OSTEAL OR OSTEOID OR OSSEO? OR OSTEOLOG?)
S2      65164   S SAW???
S3    1115133   S CUT? ? OR CUTT??? OR KERF? OR SLIC???
S4     655124   S WIRE
S5      27649   S (GIGLI OR OB OR OBSTETRIC??)
S6       2947   S S4:S5()S2
S7    3150503   S (METAL??? OR STEEL OR TUNGSTEN OR CARBIDE OR ALLOY)
S8     941247   S (STRING? ? OR CORD??? OR CABLE? ? OR THREAD? ? OR FILAMENT?)
S9      30677   S S7(3N)S8
S10   2918906   S (HOLE OR HOLES OR TUNNEL? OR APERTURE? OR OPENING? ?)
S11   3657341   S PASS??? OR INSERT? OR DRILL? OR BORE? ? OR INCIS? OR PERFORAT? OR PIERC?
OR PENETRAT?
S12   4396269   S THROUGH
S13       697   S (S6 OR S9)(5W)S12
S14       358   S S13(5N)S10:S11
S15      4221   S S1(10N)S3
S16         0   S S14 AND S15
S17      7998   S S1(S)S3
S18         0   S S14 AND S17
S19         2   S S14 AND S1
S20      4304   S RESECT?
S21   1118252   S S3 OR S20
S22      2699   S (S6 OR S9)(10N)S10:S11
S23        23   S S22 AND S1
S24         3   S (S6 OR S9)(10N)S20
S25        25   S S23:S24

?  show files
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[File 347] **JAPIO** Dec 1976-2006/Jul(Updated 061116)

[File 350] **Derwent WPIX** 1963-2006/UD=200674

**File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit http://www.dialog.com/dwpi/.*

25/5/5 (Item 4 from file: 350) **Links**
Derwent WPIX

0015298695 *Drawing available*
WPI Acc no: 2005-648869/200566
XRPX Acc No: N2005-531634
Guide system for resecting bone through incision for arthroscopic procedure, has wire saw inserted through at least one of incisions and guided by alignment pins while moving to resect bone
Patent Assignee: ARAM L (ARAM-I); AUGER D (AUGE-I); DEPUY PROD INC (DEPU-N); HAYDEN A (HAYD-I)
Inventor: ARAM L; AUGER D; HAYDEN A

Patent Family (3 patents, 38 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050216023	A1	20050929	US 2004812216	A	20040329	200566	B
EP 1582156	A1	20051005	EP 2005251835	A	20050324	200566	E
AU 2005201123	A1	20051013	AU 2005201123	A	20050315	200611	E

Priority Applications (no., kind, date): US 2004812216 A 20040329

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050216023	A1	EN	30	34		
EP 1582156	A1	EN				
Regional Designated States,Original	AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU					

Alerting Abstract US A1
NOVELTY - Two alignment pins (26,28) are inserted through one of the incisions into the **bone** in two orientations. Alignment pins are configured and oriented to define the resection surface of a reference through which the **bone** is to be **resected.** A **wire saw** (30) is **inserted** through at least one of the **incisions** and guided by the alignment pins while moving to resect the **bone.**
DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

a. a guide apparatus;
b. a method of resecting **bone** of patient; and
c. a **bone** resection apparatus.

USE - For resecting **bone** through incision for **arthroscopic** procedure.
ADVANTAGE - Provides reduced tourniquet time, reduced anesthetic requirements and reduction in the risk of

infection by allowing surgeon to prepare the **bone arthroscopically**. Ensures faster recovery, less pain, better quadriceps functions, smaller scars and shorter hospital stay. Ensures huge cost savings for both **orthopaedic** manufacturer and hospital since instrumentation is simple to manufacture.
DESCRIPTION OF DRAWINGS - The figure shows the perspective view of the leg of a patient.
12 Tibia
14 Femur
26,28 Pins
30 Wire saw

Title Terms /Index Terms/Additional Words: GUIDE; SYSTEM; **BONE**; THROUGH; INCISION; **ARTHROSCOPIC**; PROCEDURE; WIRE; SAW; INSERT; ONE; ALIGN; PIN; MOVE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/17; A61B-017/56; A61B-017/74			Main		"Version 7"
A61B-017/15			Secondary		"Version 7"

US Classification, Issued: 606086000, 606082000, 606087000, 606096000

File Segment: EngPI; ;
DWPI Class: P31

25/5/12 (Item 11 from file: 350) **Links**
Derwent WPIX

0010097518 *Drawing available*
WPI Acc no: 2000-404534/
XRPX Acc No: N2000-303083
Fixing tool for attaching bone repairing member to hole of cranium bone
Patent Assignee: NOMURA H (NOMU-I)
Inventor: NOMURA H

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 2000139936	A	20000523	JP 1998313095	A	19981104	200035	B

Priority Applications (no., kind, date): JP 1998313095 A 19981104

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 2000139936	A	JA	7	11	

Alerting Abstract JP A
NOVELTY - The fixing tool (4) includes a Y-shaped coupling member (5) having toroidal ends (5R). One toroidal end is fixed by a hollow body (6) and an inserting rod (7) to a hole (3A) formed through the **bone** repair member (3). The hollow body has lower hooking sections engaged with the hole lower ends, during the insertion of the inserting rod. The **bone** repair member is fitted into the hole (2) the cranium **bone** (1).
DESCRIPTION - The adjacent toroidal rings of the coupling member are fixed by inserting rods and hollow bodies to holes (1A) formed through the cranium **bone**. The holes are situated near the hole.
USE - For attaching **bone** repairing member to hole of cranium **bone**.
ADVANTAGE - Simplifies and expedites fixing of **bone** repairing member to cranium **bone**. Does not require **inserting** e.g. **metal** wire, **threads**, screws inside cranium **bone**. Ensures satisfactory fixing of **bone** repairing member. Suppresses damage to **bone** repairing member.
DESCRIPTION OF DRAWINGS - The figure shows the isometric view of the fixing tool, before the **bone** repairing member fixing operation.
1 Cranium **bone**
1A Holes
2 Hole
3 **Bone** repair member
3A Hole
4 Fixing tool
5 Coupling member
5R Toroidal ends
6 Hollow body

7 Inserting rod

Title Terms /Index Terms/Additional Words: FIX; TOOL; ATTACH; **BONE**; REPAIR; MEMBER; HOLE; CRANIUM

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/58			Main		"Version 7"

File Segment: EngPI; ;
DWPI Class: P31

25/5/18 (Item 17 from file: 350) **Links**
Derwent WPIX

0003979845
WPI Acc no: 1987-073671/198711
Surgical instrument for fixing screws in fractured bones - drills hole in bone and then cuts screw thread to accommodate metal screw
Patent Assignee: SCHOLZ W (SCHO-I)
Inventor: SCHOLZ W

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 3622676	A	19870312	DE 3530631	A	19850828	198711	B
			DE 3622676	A	19860705		

Priority Applications (no., kind, date): DE 3622676 A 19860705

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
DE 3622676	A	DE	6	4	

Alerting Abstract DE A
The surgical instrument is designed to drill a hole in a fractured **bone** and then to cut a screw thread in the hole to receive a screw to repair the fracture. The instrument has a drill tip (3) and a short length (2) shaped as a standard drill bit with spiral flutes (10).
The middle part of the instrument has cutting teeth (4) for cutting a screw thread in the hole formed by the drill tip. The upper part of the instrument has a scale (7) to indicate the depth of the drilled hole.
USE - Repair of fractured **bones**.

Title Terms /Index Terms/Additional Words: SURGICAL; INSTRUMENT; FIX; SCREW; FRACTURE; **BONE**; DRILL; HOLE; CUT; THREAD; ACCOMMODATE; METAL

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/58			Secondary		"Version 7"

File Segment: EngPI; ;
DWPI Class: P31

25/5/21 (Item 20 from file: 350) **Links**
Derwent WPIX

0003413089
WPI Acc no: 1985-182631/
XRPX Acc No: N1985-137005
Bone surface treatment instrument - body has ring groove of depth greater than dia. of wire saw, and width at least twice its dia.
Patent Assignee: MEDINSTRUMENT PROD (MEDI-R)
Inventor: REPIN V A; SABITOV V K H; ZELENOV E S

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
SU 1132929	A	19850107	SU 3583413	A	19830420	198530	B

Priority Applications (no., kind, date): SU 3583413 A 19830420

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
SU 1132929	A	RU	2	1	

Alerting Abstract SU A
The **bone** surface treatment instrument consists of a shank (1) and a body (2) made with a spiral groove (3) which holds a wire saw (5) attached at one end (6) to the shank (1) while its other end (7) is pressed by fastener (8) in a conical aperture (9). In the body (2)next to the spiral groove (3) there is a ring recess (10). In the end of the body (2) there is a through slit (11) into which the end of **wire saw** (5) is **inserted** once winding is completed and pressed in place by fastener (8).
The (1) of body (2) is fitted in an electric drill and it is brought into rotation, and the **bone** is treated using the cylindrical surface of the working part (2). If it is necessary to treat a sharp edge of the **bone**, the device is positioned with its ring recess (10) on it.
ADVANTAGE - Reduces trauma to the tissues. Bul.1/7.1.85

Title Terms /Index Terms/Additional Words: **BONE**; SURFACE; TREAT; INSTRUMENT; BODY; RING; GROOVE; DEPTH; GREATER; DIAMETER; WIRE; SAW; WIDTH; TWICE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/16			Secondary		"Version 7"

File Segment: EngPI; ;
DWPI Class: P31

25/5/22 (Item 21 from file: 350) **Links**
Derwent WPIX

0002872844
WPI Acc no: 1983-H7646K/
XRPX Acc No: N1983-101106
Osteotomy appts. - conductors have arched canals and V-shaped dilators with apertures for saw passage
Inventor: KARANFILOV I N

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
SU 948378	B	19820807	SU 3221270	A	19801224	198323	B

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
SU 948378	B	RU	2	2	

Alerting Abstract SU B
The osteotomy appts. has a yoke (1) which has conductors (2) holding a Gigli saw (3). The conductors (2) are made with arched canals (A) and are equipped with v-shaped dilators (4) with **apertures** (B) in which the **Gigli saw** (3) is positioned. Also, the yoke (1) is telescopic. The trauma involved in the operation of osteotomy is reduced because when performing osteotomy with this appts it is not necessary to cut through the soft tissues, because the conductors (2) are made with arched canals (A) and are equipped with v-shaped dilators (4) with **apertures** (B) which hold the **Gigli saw** (3), and because the yoke (I) is telescopic.
This allows wide exposure of the **bone** to be cut without cutting through the soft tissues, and so reduces the risk of complications caused by infection and increases the effectiveness of treatment. Bul.29/7.8.82

Title Terms /Index Terms/Additional Words: OSTEOTOMY; APPARATUS; CONDUCTOR; ARCH; CANAL; V-SHAPED; DILATED; APERTURE; SAW; PASSAGE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/16			Secondary		"Version 7"

File Segment: EngPI; ;
DWPI Class: P31

25/5/25 (Item 24 from file: 350) **Links**
Derwent WPIX

0002459477
WPI Acc no: 1982-B7269E/
Shin stump lengthening method - with tibia osteotomy on level of epiphysis
Patent Assignee: LENGD PROSTHESIS (LEPR-R)
Inventor: FILATOV V I; ROZHKOV A V

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
SU 827036	B	19810507	SU 2686109	A	19781120	198207	B

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
SU 827036	B	RU	2		

Alerting Abstract SU B
Three 2cm long longitudinal incisions are made in the soft tissues on the stumps front and both side surfaces at the level of the epiphysis tibiae, the soft tissues are separated around the tibia and a gouge used through the front incision to separate the tuberosity of the tibia with the **patellar** ligament from the distal fragment. A curved clamp is brought along the back surface of the tibia stump and used to introduce a **Gigli saw** covered with a resilient tube to allow it to **pass** between the **bone** and soft tissues.
The tube is removed and, with soft tissues protected by an elevator, the tibia is sawn through at its thickest point on the level of the epiphysis, 1.0-1.5cm below the fissure of the **knee** joint. Two mutually intersecting pins are taken through the proximal and distal tibia fragments in the plane of the transverse cut, then fixed in the rings of a distraction device both of which are joined together by extension rods. Then dosed distraction is performed and the distraction appliance removed. Bul.17/7.5.81

Title Terms /Index Terms/Additional Words: SHIN; STUMP; LENGTH; METHOD; TIBIA; OSTEOTOMY; LEVEL; EPIPHYSIS

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/00			Secondary		"Version 7"

File Segment: EngPI; ;
DWPI Class: P31

Set Items Description

S1 640390 S (ARTHROSCOP? OR PATELLA? OR KNEE? ? OR BONE? ? OR CONDYL? OR ORTHOPED? OR ORTHOPAED? OR OSSEOUS? OR OSTEAL OR OSTEOID OR OSSEO? OR OSTEOLOG?)

S2 1424417 S SAW???

S3 4114387 S CUT? ? OR CUTT??? OR KERF? OR SLIC???

S4 5192565 S S2:S3

S5 3864422 S WIRE

S6 135857 S (GIGLI OR OB OR OBSTETRIC??)

S7 2606845 S (METAL??? OR STEEL OR TUNGSTEN OR CARBIDE OR ALLOY)

S8 2554568 S (STRING? ? OR CORD??? OR CABLE? ? OR THREAD? ? OR FILAMENT?)

S9 18313 S S7(3N)S8

S10 813 S (S5 OR S6)(2N)S2

S11 2332029 S (HOLE OR HOLES OR TUNNEL? OR APERTURE? OR OPENING? ?)

S12 4684163 S PASS??? OR INSERT? OR DRILL? OR BORE? ? OR INCIS? OR PERFORAT? OR PIERC? OR PENETRAT?

S13 12792630 S THROUGH

S14 282002 S S12()S13

S15 791 S S4(S)S10

S16 37 S S15(S)(S11 OR S14)

S17 4 S S1 AND S16

S18 29211 S S4(S)(S5 OR S6 OR S9)

S19 1808 S S18(S)(S11 OR S14)

S20 37 S S1(S)S19

S21 33 RD (unique items)

? show files

[File 441] **ESPICOM Pharm&Med DEVICE NEWS** 2006/May W4

[File 47] **Gale Group Magazine DB(TM)** 1959-2006/Nov 20

[File 148] **Gale Group Trade & Industry DB** 1976-2006/Nov 20

[File 149] **TGG Health&Wellness DB(SM)** 1976-2006/Nov W1

[File 141] **Readers Guide** 1983-2006/Aug

[File 484] **Periodical Abs Plustext** 1986-2006/Nov W2

[File 635] **Business Dateline(R)** 1985-2006/Nov 18

[File 636] **Gale Group Newsletter DB(TM)** 1987-2006/Nov 20

[File 15] **ABI/Inform(R)** 1971-2006/Nov 20

[File 129] **PHIND(Archival)** 1980-2006/Nov W2

[File 135] **NewsRx Weekly Reports** 1995-2006/Nov W2

[File 16] **Gale Group PROMT(R)** 1990-2006/Nov 20

[File 160] **Gale Group PROMT(R)** 1972-1989

[File 621] **Gale Group New Prod.Annou.(R)** 1985-2006/Nov 17

[File 9] **Business & Industry(R)** Jul/1994-2006/Nov 17

17/3,K/2 (Item 1 from file: 149)
TGG Health&Wellness DB(SM)

01663995 **Supplier Number:** 19034152 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Surgical management of patients with severe head injuries.

Pieper, Daniel R.; Valadka, Alex B.; Marsh, Cheryl
AORN Journal , v63 , n5 , p854(12)
May ,
1996
Publication Format: Magazine/Journal
ISSN: 0001-2092
Language: English
Record Type: Fulltext; Abstract **Target Audience:** Professional; Trade
Word Count: 7309 **Line Count:** 00641

...collection beneath the dura mater or as a preliminary step in the creation of a **bone** flap.

* Contralateral: Situated on, affecting, or pertaining to the opposite side.

* Craniotomy: Opening of the...all neurosurgical procedures, such as * a power drill and saw, * standard craniotomy instrumentation, * hemostatic materials, * **bone** wax, * neurosurgical sponges, * scalp clips, and * antibiotic solutions.

Electric and disposable shavers, fiber-optic headlights...

...ie, monopolar, bipolar), and * obtains hemostatic agents (eg, neurosurgical sponges, topical thrombin, dilute epinephrine solution, **bone** wax).

Assessing the patient. As soon as a patient with a severe head injury arrives...with dilute epinephrine) to minimize scalp bleeding, which can be significant.

The neurosurgeon creates buff **holes** using either a power or manual drill. He or she separates the underlying dura from the patient's skull and connects the burr **holes** using a power **saw** or a manual spiral-**wire saw** with handles. It usually is not possible to **cut** across the thick prominence of the sphenoid ridge at the base of the patient's skull; therefore, the neurosurgeon scores the **bone** with a drill and either punches out the **bone** with rongeurs or fractures the **bone**. The scrub person stores the **bone** flap in saline- or antibiotic-soaked gauze or a sterile basin filled with saline or an antibiotic solution until the **bone** flap is replaced at the end of the procedure.

The neurosurgeon creates a small opening...

...or RN first assistant inserts a self-retaining retractor to maintain exposure of the underlying **bone**. The neurosurgeon creates a single burr hole or two adjacent holes, opens the dura, and...manner with a power drill and saw and/or rongeurs, and does not replace the **bone** at the

end of the procedure.
Evacuation of an ICH often requires traversing or resecting...

...incorporate the bullet entry and exit wound into two separate "lazy-S" skin incisions. The **bone** around the entry and exit sites may then be

removed. Alternatively, the neurosurgeon may create a small **bone** flap around the area of calvarial penetration (Figure 7). In the presence of an associated...

...be performed.
After thoroughly debriding devitalized tissue and evacuating any underlying hematomas, contused brain, and **bone** fragments or foreign bodies, the neurosurgeon repairs the patient's dura in a watertight fashion ...

17/3,K/3 (Item 1 from file: 484)
Periodical Abs Plustext

03555165 **Supplier Number:** 98041939 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Use of the Gigli saw in performing a mid-frontobasal or pterional craniotomy

Van Dijk, J M C; Thomeer, R T W A
British Journal of Neurosurgery (BJN) , v11 n6 , p 558-559
Dec 1997
ISSN: 0268-8697 **Journal Code:** BJN
Document Type: Feature
Language: English **Record Type:** Fulltext; Abstract
Word Count: 631
Text:

...need for fixation of the boneflap by wiring or mini-plating is obviated in this **bone**-- sparing technique. Consequently the authors believe the Gigli saw is to be preferred to the...

...strategically located 5 mm burr-holes. With the use of a conventional guiding probe the **Gigli saw** is conveyed routinely from one burr-**hole** to another between the dura mater and the skull-**bone** (Fig. 1). If the frontal dura is fragile and adhesive to the **bone** the use of the guiding probe can be preceded by the application of a dural dissector. The **cut** through the **bone** is **sawn** obliquely, with a sliding aspect.2
When encountering an obstructing anatomical structure at the inner aspect of the **bone**, in particular the lateral part of the lesser sphenoid wing in the pterional approach or...

...as possible, the following procedure is worthwhile. After the dura mater is disengaged from the **bone** by a Penfield #3 and a dural dissector, the guiding probe can be shifted from...

...ridges at the inside of the skull can be passed with the use of the **Gigli saw** (Figs 2 and 3).

Conclusions

(Illustration Omitted)

Captioned as: FIG. 1.

(Illustration Omitted)

Captioned as...

...The aesthetic result due to the easily attained bevelshaped edges, preventing postoperative depression of the **bone** flap, is well-known.2 Combining this advantage with the elegant manner in which the ...

Descriptors:

...**Bones**

20/3,K/17 (Item 2 from file: 149)
TGG Health&Wellness DB(SM)

01663995 **Supplier Number:** 19034152 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Surgical management of patients with severe head injuries.

Pieper, Daniel R.; Valadka, Alex B.; Marsh, Cheryl
AORN Journal , v63 , n5 , p854(12)
May ,
1996
Publication Format: Magazine/Journal
ISSN: 0001-2092
Language: English
Record Type: Fulltext; Abstract **Target Audience:** Professional; Trade
Word Count: 7309 **Line Count:** 00641

...with dilute epinephrine) to minimize scalp bleeding, which can be significant.

The neurosurgeon creates buff **holes** using either a power or manual drill. He or she separates the underlying dura from the patient's skull and connects the burr **holes** using a power **saw** or a manual spiral-**wire saw** with handles. It usually is not possible to **cut** across the thick prominence of the sphenoid ridge at the base of the patient's skull; therefore, the neurosurgeon scores the **bone** with a drill and either punches out the **bone** with rongeurs or fractures the **bone**. The scrub person stores the **bone** flap in saline- or antibiotic-soaked gauze or a sterile basin filled with saline or an antibiotic solution until the **bone** flap is replaced at the end of the procedure.

The neurosurgeon creates a small opening...

20/3,K/35 (Item 1 from file: 9)
Business & Industry(R)

03028900 Supplier Number: 101367313 **(USE FORMAT 7 OR 9 FOR FULLTEXT)**
Reprocessed single use medical devices: termination of exemptions from premarket notification; requirement for submission of validation data. (Regulatory News).

Biomedical Market Newsletter , v 13 , n 3 , p 42
April 30, 2003
Document Type: Newsletter **ISSN:** 1064-4180 (United States)
Language: English **Record Type:** Fulltext
Word Count: 6688 **(USE FORMAT 7 OR 9 FOR FULLTEXT)**

TEXT:

...KNOWN TO BE REPROCESSED OR CONSIDERED FOR REPROCESSING

	Medical specialty	Device type	Regulation No.
98	**OB**/GYN	Endoscopic Unipolar Coagulator-**Cutter** (And Accessories)	884.4160
99	**OB**/GYN	Hysteroscopic Coagulator (And Accessories).	884.4160
100	**OB**/GYN	Unipolar Laparoscopic Coagulator (And Accessories).	884.4160
101	**OB**/GYN	Episiotomy Scissors	884.4520
102	**OB**/GYN	Umbilical Scissors	884.4520
103	**OB**/GYN	Biopsy Forceps	884.4530
104	**OB**/GYN	Assisted reproduction needle	884.6100
105	Opthalmic	Endoilluminator	876.1500
106	Opthalmic	Surgical Drapes...	

...Opthalmic Phacoemulsification/ Phacofragmentation Fluids c. 886.4670

111	Opthalmic	Phacofragmentation Unit	886.4670
112	Ortho	**Saw** Blades	878.4820
113	Ortho	Surgical Drills	878.4820
114	Ortho	**Arthroscope** accessories	888.1100
115	Ortho	**Bone** Tap	888.4540
116	Ortho	Burr	888.4540
117	Ortho	Carpal **Tunnel** Blade	888.4540
118	Ortho	Countersink	888.4540
119	Ortho	Drill Bill	888.4540
120...			

...132	Physical Medicine	External Limb Component, Hip Joint	890.3420
133	Physical Medicine	External Limb Component, **Knee** Joint	890.3420
134	Physical Medicine	External Limb Component, Mechanical Wrist...	890.3420

...Risk

Device type	Class	code	(1,2,3,3*)
Endoscopic Unipolar Coagulator-**Cutter** (And Accessories)	II	KNF	2
Hysteroscopic Coagulator (And Accessories).	II	HFH	2
Unipolar Laparoscopic Coagulator	II	HFG	2...
...II	HOC	3	
Phacoemulsification/ Phacofragmentation Fluids c.	II	MUS	2
Phacofragmentation Unit	II	HOC	1
Saw Blades	I	GFA	1
		DWH	
		GEY	

Surgical Drills	I	GET GEY	1
Arthroscope accessories	II	GET HRX	2
Bone Tap	I	HWX	1
Burr	I	HTT	1
Carpal **Tunnel** Blade	I	LXH	2
Countersink	I	HWW	1
Drill Bill	I	HTW	1
Knife	I...		
...Cable	II	IKD	1
External Limb Component, Hip Joint	I	ISL	2
External Limb Component, **Knee** Joint	I	ISY	2
External Limb Component, Mechanical Wrist	I	ISZ	2
External Limb...			

...3

Device type	Critical/semi-critical/non-critical	Premarket exempt
Endoscopic Unipolar Coagulator-**Cutter** (And Accessories)	N	N
Hysteroscopic Coagulator (And Accessories).	N	N
Unipolar Laparoscopic Coagulator (And Accessories...	N	N

...N

Phacoemulsification Needle	C	N
Phacoemulsification/ Phacofragmentation Fluids c.	C	N
Phacofragmentation Unit	N	N
Saw Blades	C	Y
Surgical Drills	C	Y
Arthroscope accessories	C	Y
Bone Tap	C	Y
Burr	C	Y
Carpal **Tunnel** Blade	C	Y
Countersink	C	Y
Drill Bill	C	Y
Knife	C	Y
Manual Surgical...		

...Therapy.

Electrode Cable	N	Y
External Limb Component, Hip Joint	N	Y
External Limb Component, **Knee** Joint	N	Y

External Limb Component, Mechanical Wrist	N	Y
External Limb Component, Shoul...		

Set	Items	Description
S1	74	S AU=(ARAM, L? OR ARAM L?)
S2	443	S AU=(AUGER, D? OR AUGER D?)
S3	373	S AU=(HAYDEN, A? OR HAYDEN A?)
S4	7	S S1 AND S2 AND S3
S5	7	RD (unique items)
S6	7	S S1 AND (S2 OR S3)
S7	7	S S2 AND S3
S8	0	S S6:S7 NOT S5

[File 5] **Biosis Previews(R)** 1969-2006/Nov W2

[File 155] **MEDLINE(R)** 1950-2006/Nov 14

**File 155: NLM will not provide an update on 16 November, in preparation for the annual reload.*

[File 34] **SciSearch(R) Cited Ref Sci** 1990-2006/Nov W2

[File 434] **SciSearch(R) Cited Ref Sci** 1974-1989/Dec

[File 73] **EMBASE** 1974-2006/Nov 16

[File 74] **Int.Pharm.Abs** 1970-2006/Sep B2

[File 2] **INSPEC** 1898-2006/Nov W1

[File 6] **NTIS** 1964-2006/Nov W1

[File 8] **Ei Compendex(R)** 1970-2006/Nov W1

**File 8: The file will be reprocessed soon and accession numbers will change.*

[File 35] **Dissertation Abs Online** 1861-2006/Oct

[File 65] **Inside Conferences** 1993-2006/Nov 16

[File 94] **JICST-EPlus** 1985-2006/Jul W5

[File 98] **General Sci Abs** 1984-2006/Oct

[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2006/Sep

[File 144] **Pascal** 1973-2006/Oct W4

[File 23] **CSA Technology Research Database** 1963-2006/Nov

[File 21] **NCJRS** 1972-2006/Oct

[File 347] **JAPIO** Dec 1976-2006/Jul(Updated 061116)

[File 350] **Derwent WPIX** 1963-2006/UD=200673

**File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit http://www.dialog.com/dwpi/.*

5/5/1 (Item 1 from file: 347) **Links**
JAPIO

08539913 **Image available**
SLIDING PATELLAR PROSTHESIS

Pub. No.: 2005-288173 [JP 2005288173 A]
Published: October 20, 2005 (20051020)
Inventor: ARAM LUKE
HAYDEN ADAM
AUGER DAN
LEE JORDAN
Applicant: DEPUY PRODUCTS INC
Application No.: 2005-099386 [JP 200599386]
Filed: March 30, 2005 (20050330)
Priority: 04 814097 [US 2004814097], US (United States of America), March 31, 2004 (20040331)
International Class: A61F-002/38

ABSTRACT

PROBLEM TO BE SOLVED: To provide an improved sliding patellar substitute component.

SOLUTION: The patellar substitute component allows combination of translation motion and/or rotation motion in various degree of freedom by structure of a boss and a groove between a base part subcomponent and an articular movement subcomponent. In one embodiment, rotation around an axis is limited by a spin stopper which can be moved to make assembling easier. In another method, the boss and the groove are configured so as to function as a spin stopper. Assembling of the patellar substitute component in one embodiment is simplified by providing a boss setting part.

5/5/2 (Item 1 from file: 350) **Links**
Derwent WPIX

0015657143 *Drawing available*
WPI Acc no: 2006-221325/200623
Related WPI Acc No: 2005-478562; 2006-221324
XRPX Acc No: N2006-190107
Kit for prosthesis system, has resilient connector for interconnecting patellofemoral joint components that replace surface regions of bone
Patent Assignee: ARAM L (ARAM-I); AUGER D (AUGE-I); HAYDEN A (HAYD-I); LEE J (LEEJ-I)
Inventor: **ARAM L**; **AUGER D**; **HAYDEN A**; LEE J

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20060058884	A1	20060316	US 2004535967	P	20040112	200623	B
			US 200533614	A	20050112		
			US 2005171180	A	20050630		

Priority Applications (no., kind, date): US 200533614 A 20050112; US 2004535967 P 20040112; US 2005171180 A 20050630

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20060058884	A1	EN	51	99	Related to Provisional	US 2004535967
					Continuation of application	US 200533614

Alerting Abstract US A1
NOVELTY - The kit has patellofemoral joint (PFJ) components (256,260) for replacing surface regions of the bone. A resilient connector is provided for interconnecting the components. An upper medial codyle component is arranged adjacent to PFJ component.
DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. method for configuring prosthesis system; and
2. method for implanting prosthesis system.

USE - For prosthesis system used in total knee replacement surgery for supporting bones such as tibial and humerus bones.
ADVANTAGE - Increases freedom of movement and orientation of the knee replacement components. Since the components are both segmented and complimentary, the surgeon replaces only the diseased region of the bone.
DESCRIPTION OF DRAWINGS - The figure shows the schematic view of a key structure in the prosthesis system.
256,260 component
258 button
262 button receptacle

Title Terms /Index Terms/Additional Words: KIT; PROSTHESIS; SYSTEM; RESILIENT; CONNECT; INTERCONNECT; JOINT; COMPONENT; REPLACE; SURFACE; REGION; BONE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61F-0002/30	A	I	L	B	20060101
A61F-0002/38	A	I	F	B	20060101

US Classification, Issued: 623020150, 623023410

File Segment: EngPI; ;
DWPI Class: P32

5/5/3 (Item 2 from file: 350) **Links**
Derwent WPIX

0015657142 *Drawing available*
WPI Acc no: 2006-221324/200623
Related WPI Acc No: 2005-478562; 2006-221325
XRPX Acc No: N2006-190106
Prosthesis system for total knee replacement surgery, has spacer arranged adjacent to main component and between main and auxiliary components, when replacing portions of bone
Patent Assignee: ARAM L J (ARAM-I); AUGER D D (AUGE-I); HAYDEN A I (HAYD-I); LEE J S (LEEJ-I)
Inventor: **ARAM L J**; **AUGER D D**; **HAYDEN A I**; LEE J S

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20060058883	A1	20060316	US 2004535967	P	20040112	200623	B
			US 200533614	A	20050112		
			US 2005170816	A	20050630		

Priority Applications (no., kind, date): US 200533614 A 20050112; US 2004535967 P 20040112; US 2005170816 A 20050630

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20060058883	A1	EN	50	99	Related to Provisional	US 2004535967
					Continuation of application	US 200533614

Alerting Abstract US A1
NOVELTY - The system has main and auxiliary components configured for replacing specific portions of a bone. A spacer is arranged adjacent to the main component and between the main and auxiliary components, when replacing the portions of the bone.
DESCRIPTION - An INDEPENDENT CLAIM is also included for femoral prosthesis system.
USE - Prosthesis system such as femoral prosthesis system for replacing lateral condyle, medical condyle, and patellofemoral portions of femur, in total knee replacement surgery.
ADVANTAGE - Increases freedom of movement and orientation of the knee replacement components. The use of spacer of different configuration, increases usage of limited number of components for wide range of patients.
DESCRIPTION OF DRAWINGS - The figure shows a perspective view of a shim with a flap for attachment to the bone.
117 shim
119 flap
121 hole

Title Terms /Index Terms/Additional Words: PROSTHESIS; SYSTEM; TOTAL; KNEE; REPLACE; SURGICAL; SPACE; ARRANGE; ADJACENT; MAIN; COMPONENT; AUXILIARY; PORTION; BONE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61F-0002/30	A	I	L	B	20060101
A61F-0002/38	A	I	F	B	20060101

US Classification, Issued: 623020150, 623020160, 623020300, 623018110

File Segment: EngPI; ;
DWPI Class: P32

5/5/4 (Item 3 from file: 350) **Links**
Derwent WPIX

0015300954 *Drawing available*
WPI Acc no: 2005-651130/200567
XRPX Acc No: N2005-533405
Patellar prosthesis for use in total knee replacement, has subcomponent having channel at its first side, boss retaining region to retain boss in channel when boss is inserted, and boss assembly for insertion of boss into channel
Patent Assignee: ARAM L (ARAM-I); AUGER D (AUGE-I); DEPUY PROD INC (DEPU-N); HAYDEN A I (HAYD-I); LEE J S (LEEJ-I)
Inventor: **ARAM L**; **AUGER D**; **HAYDEN A**; **HAYDEN A I**; LEE J; LEE J S

Patent Family (3 patents, 38 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 1582184	A1	20051005	EP 2005251977	A	20050330	200567	B
US 20050222685	A1	20051006	US 2004814097	A	20040331	200567	E
JP 2005288173	A	20051020	JP 200599386	A	20050330	200569	E

Priority Applications (no., kind, date): US 2004814097 A 20040331

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 1582184	A1	EN	30	49		
Regional Designated States,Original	AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU					
JP 2005288173	A	JA	31			

Alerting Abstract EP A1
NOVELTY - The first and second subcomponents are connected to the boss. The second subcomponent has channel at its first side, boss retaining region to retain the boss within the channel when boss is inserted into the channel, and boss assembly to facilitate the insertion of the boss into the channel.
DESCRIPTION - An INDEPENDENT CLAIM is also included for patellar replacement component base.
USE - For use in total knee replacement or partial knee replacement for patient.
ADVANTAGE - The durability of the prosthesis is improved. The handling flexibility is improved. Reduces the contact stress effectively.
DESCRIPTION OF DRAWINGS - The figure shows an exploded perspective view of the patellar prosthesis.
10 patellar replacement component
12 base
14 articulating subcomponent
18 femur

20 tibial component

Title Terms /Index Terms/Additional Words: PROSTHESIS; TOTAL; KNEE; REPLACE; CHANNEL; FIRST; SIDE; BOSS; RETAIN; REGION; INSERT; ASSEMBLE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61F-002/38			Main		"Version 7"
A61B-017/15; A61B-017/90			Secondary		"Version 7"

US Classification, Issued: 623020200, 606088000

File Segment: EngPI; ;
DWPI Class: P32

5/5/5 (Item 4 from file: 350) **Links**
Derwent WPIX

0015298695 *Drawing available*
WPI Acc no: 2005-648869/200566
XRPX Acc No: N2005-531634
Guide system for resecting bone through incision for arthroscopic procedure, has wire saw inserted through at least one of incisions and guided by alignment pins while moving to resect bone
Patent Assignee: ARAM L (ARAM-I); AUGER D (AUGE-I); DEPUY PROD INC (DEPU-N); HAYDEN A (HAYD-I)
Inventor: **ARAM L**; **AUGER D**; **HAYDEN A**

Patent Family (3 patents, 38 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050216023	A1	20050929	US 2004812216	A	20040329	200566	B
EP 1582156	A1	20051005	EP 2005251835	A	20050324	200566	E
AU 2005201123	A1	20051013	AU 2005201123	A	20050315	200611	E

Priority Applications (no., kind, date): US 2004812216 A 20040329

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050216023	A1	EN	30	34		
EP 1582156	A1	EN				
Regional Designated States,Original	AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU					

Alerting Abstract US A1
NOVELTY - Two alignment pins (26,28) are inserted through one of the incisions into the bone in two orientations. Alignment pins are configured and oriented to define the resection surface of a reference through which the bone is to be resected. A wire saw (30) is inserted through at least one of the incisions and guided by the alignment pins while moving to resect the bone.
DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

a. a guide apparatus;
b. a method of resecting bone of patient; and
c. a bone resection apparatus.

USE - For resecting bone through incision for arthroscopic procedure.
ADVANTAGE - Provides reduced tourniquet time, reduced anesthetic requirements and reduction in the risk of

infection by allowing surgeon to prepare the bone arthroscopically. Ensures faster recovery, less pain, better quadriceps functions, smaller scars and shorter hospital stay. Ensures huge cost savings for both orthopaedic manufacturer and hospital since instrumentation is simple to manufacture.
DESCRIPTION OF DRAWINGS - The figure shows the perspective view of the leg of a patient.
12 Tibia
14 Femur
26,28 Pins
30 Wire saw

Title Terms /Index Terms/Additional Words: GUIDE; SYSTEM; BONE; THROUGH; INCISION; ARTHROSCOPIC; PROCEDURE; WIRE; SAW; INSERT; ONE; ALIGN; PIN; MOVE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-017/17; A61B-017/56; A61B-017/74			Main		"Version 7"
A61B-017/15			Secondary		"Version 7"

US Classification, Issued: 606086000, 606082000, 606087000, 606096000

File Segment: EngPI; ;
DWPI Class: P31

5/5/6 (Item 5 from file: 350) **Links**
Derwent WPIX

0015287925 *Drawing available*
WPI Acc no: 2005-638063/200565
XRPX Acc No: N2005-523313
Joint artificial implant component designing system for joint replacement surgery, incorporates set of model data in joint model so that it generates dynamic response data of artificial implant corresponding to set of model data
Patent Assignee: ARAM L J (ARAM-I); AUGER D (AUGE-I); DEPUY PROD INC (DEPU-N); HAYDEN A I (HAYD-I); LEE J S (LEEJ-I)
Inventor: **ARAM L**; **ARAM L J**; **AUGER D**; **HAYDEN A**; **HAYDEN A I**; LEE J; LEE J S

Patent Family (3 patents, 38 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050197814	A1	20050908	US 2004550713	P	20040305	200565	B
			US 2004806637	A	20040323		
EP 1574182	A1	20050914	EP 2005251327	A	20050304	200565	E
AU 2005200753	A1	20050922	AU 2005200753	A	20050218	200570	E

Priority Applications (no., kind, date): US 2004550713 P 20040305; US 2004806637 A 20040323

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050197814	A1	EN	21	16	Related to Provisional	US 2004550713
EP 1574182	A1	EN				
Regional Designated States,Original	AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU					

Alerting Abstract US A1
NOVELTY - An artificial implant model generator (18) generates a set of model data representative of the identified geometric dimensions and group of values with the range of values for the identified dimensions. A kinetic model simulator (20) incorporates a set of model data in the kinetic model of a joint so that it generates dynamic response data of artificial implant corresponding to set of model data.
DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

3. joint artificial implant component designing method;
4. solid model data developing system; and
5. solid model data developing method.

USE - For designing joint artificial implant component for joint replacement surgery.

ADVANTAGE - The artificial implant is designed so that dynamic movement of the joint does not interfere with the smooth operation of articulating surfaces of implant.
DESCRIPTION OF DRAWINGS - The figure shows a block diagram of the model data generation system.
10 model data generation system
24 database
14 anthropometric data analyzer
18 artificial implant model generator
20 kinematic model simulator

Title Terms /Index Terms/Additional Words: JOINT; ARTIFICIAL; IMPLANT; COMPONENT; DESIGN; SYSTEM; REPLACE; SURGICAL; INCORPORATE; SET; MODEL; DATA; SO; GENERATE; DYNAMIC; RESPOND; CORRESPOND

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61F-002/30; A61F-002/76; G06G-007/48			Main		"Version 7"

US Classification, Issued: 703011000

File Segment: EngPI; EPI;
DWPI Class: T01; P32
Manual Codes (EPI/S-X): T01-J15H

5/5/7 (Item 6 from file: 350) **Links**
Derwent WPIX

0015129029 *Drawing available*
WPI Acc no: 2005-478562/200548
Related WPI Acc No: 2006-221324; 2006-221325
XRPX Acc No: N2005-389651
Femoral prosthesis system for human body joint e.g. knee, has each of fasteners which extends through bone space defined between patellofemoral joint component and medial and lateral condylar components
Patent Assignee: ARAM L (ARAM-I); AUGER D D (AUGE-I); DEPUY PROD INC (DEPU-N); HAYDEN A I (HAYD-I); LEE J S (LEEJ-I)
Inventor: **ARAM L**; **AUGER D**; **AUGER D D**; **HAYDEN A**; **HAYDEN A I**; LEE J; LEE J S

Patent Family (3 patents, 107 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050154471	A1	20050714	US 2004535967	P	20040112	200548	B
			US 200533614	A	20050112		
WO 2005067521	A2	20050728	WO 2005US1111	A	20050112	200550	E
EP 1703867	A2	20060927	EP 2005711424	A	20050112	200663	E
			WO 2005US1111	A	20050112		

Priority Applications (no., kind, date): US 2004535967 P 20040112; US 200533614 A 20050112

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050154471	A1	EN	44	99	Related to Provisional	US 2004535967
WO 2005067521	A2	EN				
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW					
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
EP 1703867	A2	EN			PCT Application	WO 2005US1111
					Based on OPI patent	WO 2005067521
Regional Designated States,Original	AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU					

Alerting Abstract US A1

NOVELTY - Each of the fasteners extends through the bone space defined between a patellofemoral joint component, a medial condylar component and lateral condylar component. The bone space is configured to receive resected portion of a femur. The lateral condylar component is configured to replace a portion of lateral condylar bearing surface.
USE - For human body joint e.g. knee.
ADVANTAGE - Enables more freedom of movement and orientation of knee replacement components. Enables surgeon to match components to local implantation geometry due to ability to mechanically modify the relative positions of areas of the component. Enables surgeon to optimize conformity between femoral and tibial components while reducing inventory costs.
DESCRIPTION OF DRAWINGS - The figure shows the explanatory drawing of a femoral prosthesis system.
256,260 Component
258 Button
262 Button receptacle

Title Terms /Index Terms/Additional Words: FEMORAL; PROSTHESIS; SYSTEM; HUMAN; BODY; JOINT; KNEE; FASTEN; EXTEND; THROUGH; BONE; SPACE; DEFINE; COMPONENT; MEDIAN; LATERAL; CONDYLE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61F			Main		"Version 7"
A61F-0002/38	A	I		R	20060101
A61F-0002/38	A	I	F	B	20060101
A61F-0002/38	C	I		R	20060101

US Classification, Issued: 623020150, 623020350

File Segment: EngPI; ;
DWPI Class: P32